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UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Electrification Administration
Washington 25, D. C.

GENERAL CONSTRUCTION
BULLETIN NUMBER 169

October 25, 1949

PART I
APPROVED CONSTRUCTION CONTRACTS
AWARDED BY REA BORROWERS

Alabama 9P Clarke-Washington: Clarke-Washington Electric Membership Cooperative, Corp., Jackson, Ala., two contracts: 1st contract: to Trans-Electric Co., 106 E. Broadway, Louisville, Ky., \$349,173.74 for the construction of 364.8 miles of line to serve 948 members, plus the conversion of 12 miles of line. 2nd contract: to G. T. Key Co., 1212 S. Hull St., Montgomery, Ala., \$52,652.45 for the construction of 12.95 miles of 44 kv transmission line. Engineer for both (1) last page. PLEASE NOTE: NAMES AND ADDRESSES OF SYSTEM ENGINEERS are furnished on the last page of this bulletin. All numbers shown in () space are keyed to like numbers listed with the names and addresses.

Alabama 37E2 Morgan: Joe Wheeler Electric Membership Corp., Hartselle, Ala., to Western Construction Co., Inc., Jackson, Tenn., \$395,998.32 for the construction of 285.3 miles of line to serve 1484 members. Engineer (2).

Arizona 13 Navajo: Navopache Electric Cooperative, Inc., Lakeside, Ariz., two contracts: C&D in the amount of \$106,548.00 for the construction (labor only) of 174 miles of line to serve 433 members. D in the amount of \$85,553.00 for the construction (labor only) of 54 miles of 69 kv transmission line. Successful bidder on both contracts, Walker Construction Co., 515 E. Jefferson, Dallas, Tex. Engineer for both (3).

Arkansas 13P&R Johnson: Arkansas Valley Electric Cooperative Corp., Ozark, Ark., to L. O. Brayton & Co., P. O. Box 116, Dyersburg, Tenn., \$355,015.40 for the construction of 290.7 miles of line to serve 940 members. Engineer (4).

Arkansas 24T Washington: Ozarks Rural Electric Cooperative Corp., Fayetteville, Ark., to Southern Line Construction Co., 818 Falls Bldg., P. O. Box 1838, Memphis 1, Tenn., \$224,806.26 for the construction of 198.37 miles of line to serve 569 members, plus the conversion of 12 miles of line. Engineer (5).

Georgia 34P Carroll: Carroll Electric Membership Corp., Carrollton, Ga., to Roy Richards Construction Co., Carrollton, Ga., \$182,337.18 for the construction of 185 miles of line to serve 415 members, plus the conversion of 13.49 miles of line. Engineer (6).

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Illinois 41H&L Jefferson: Tri-County Electric Cooperative, Mt. Vernon, Ill., to Oil Field Electric Co., Inc., Box 371, Carmi, Ill., \$163,840.45 for the construction of 99.44 miles distribution line to serve 224 members, and the construction of 9 miles of 34.5 kv transmission line. Engineer (7).

Indiana 35G Jasper: Jasper County Rural Electric Membership Corp., Rensselaer, Ind., to Willard Delong, Girard, Ill., \$129,699.17 for the construction of 136 miles of line to serve 73 members. Engineer (8).

Kansas 15M&N Dickinson: D. S. & O. Rural Electric Cooperative Association, Inc., Solomon, Kans., to Pendelton Construction Co., 320 Leonhardt Bldg., Oklahoma City 2, Okla., \$35,156.50 for the construction (labor only) of 97 miles of line to serve 151 members. Engineer (9).

Kansas 24K Clay: C & W Rural Electric Cooperative Association, Inc., Clay Center, Kansas, to Rhea Construction Co., 230 S. Phillips, Salina, Kans., \$53,261.77 for the construction (labor only) of 189.3 miles of line to serve 280 members. Engineer (9).

Kansas 26H,K&L Coffey: Coffey County Rural Electric Cooperative Association, Inc., Burlington, Kans., to Weikel Construction Co., 1150 Fairview Ave., Fort Wayne, Ind., \$638,872.86 for the construction of 482.81 miles of line to serve 746 members, plus the conversion of 25 miles of line. Engineer (10).

Kansas 41C&D Wilson: Radiant Electric Cooperative Association, Inc., Fredonia, Kans., to Crescent Electrical Co., 808 Delaware St., Kansas City, Mo., \$389,943.87 for the construction of 287.5 miles of line to serve 502 members, plus the conversion of 52 miles of line. Engineer (10).

Kansas 47C&D Trego, Section II: Western Cooperative Electric Association, Wakeeney, Kans., to A. F. Reis, 702 National Bank Bldg., Topeka, Kans., \$59,547.86 for the construction (labor only) of 265.92 miles of line to serve 245 members, plus the conversion of 12 miles of line. Engineer (5).

Louisiana 20L Concordia, Section II: Concordia Electric Cooperative, Inc., Ferriday, La., to R. D. Cooper Construction Co., Box 348, Ferriday, La., \$76,198.67 for the construction of 16 miles of 33 kv and 1 mile of 12.5 kv line. Engineer (11).

Minnesota 93F Cass: Consumers Delight Electric Cooperative, Inc., Federal Dam, Minn., to Hermans and Braatz, Schofield, Wisc., \$39,115.98 for the construction (labor only) of 117.05 miles of line to serve 129 members. This mileage includes 15.55 miles of transmission line. Engineer (12).

Mississippi 36U Marion: Pearl River Valley Electric Power Association, Columbia, Miss., to G. T. Key Co., 1212 S. Hull St., Montgomery, Ala., \$105,519.15 for the construction of 122 miles of line to serve 363 members. Engineer (13).

Mississippi 40S&T Smith, Section I: Southern Pine Electric Power Association, Taylorsville, Miss., to Hamilton & Rowell, P. O. Box 261, Laurel, Miss., \$302,610.34 for the construction of 350 miles of line to serve 1111 members. Engineer (13).

Mississippi 56A Alcorn, Section I: Alcorn County Electric Power Association, Corinth, Miss., to Irby Construction Co., 817 South State St., Jackson, Miss., \$28,260.70 for the construction (labor only) of 100 miles of line to serve 500 members, plus the conversion of 8.80 miles of line. Engineer (14).

Missouri 19F Boone: Boone Electric Cooperative, Inc., Columbia, Mo., to Hufford & Kyger, 1810 E. 47th St. Terrace, Kansas City, Mo., \$330,297.74 for the construction of 246.14 miles of line to serve 555 members. Engineer (5).

Missouri 32 Atchison: Atchison-Holt Electric Cooperative, Rock Port, Mo., two contracts: K & M: to Walco Engineering & Construction Co., 2408 E. 4th St., Tulsa, Okla., \$498,066.06 for the construction of 353.85 miles of line to serve 639 members, plus the conversion of 40.47 miles of line. P Section I: to T. J. Robertson Company, Jonesboro, Arkansas, \$167,055.52 for the construction of 13 miles of 69 kv transmission line and 27.5 miles of 34.5 kv line. Engineer for both (15).

Missouri 35K,L&M Adair: Tri-County Electric Cooperative, Lancaster, Mo., to Basanda Construction Co., 2925 N. W. 39th Terrace, Oklahoma City 7, Okla., \$437,407.89 for the construction of 358 miles of line to serve 750 members. Engineer (16).

Missouri 36P&S Audrain: Consolidated Electric Cooperative, Mexico, Mo., to Triple H Construction Co., P. O. Box 50, Linton, Ind., \$282,329.73 for the construction of 242 miles of line to serve 495 members. Engineer (17)

Missouri 57E Lincoln, Section I&II: Cuivre River Electric Cooperative, Troy, Mo., two contracts, both to Miller Construction Co., Inc., 121 E. Eberwine St., Vincennes, Ind., Section I: \$434,392.56 for the construction of 285.82 miles of line to serve 678 members. Section II: \$439,635.08 for the construction of 260.06 miles of line to serve 529 members. Engineer for both (7).

Missouri 66C Webster: Webster Electric Cooperative, Inc., Marshfield, Mo., to The Reinhart and Donovan Co., 116 N. W. First St., Oklahoma City 2, Okla., \$115,356.50 for the construction of 88.58 miles of line to serve 211 members. Engineer (5).

Montana 15M Fergus: Fergus Electric Cooperative, Inc., Lewistown, Mont., to Line Builders, Inc., Box 581, Billings, Mont., \$71,709.39 for the construction of 72.8 miles of line to serve 52 members. Engineer (18).

Montana 25E&F Sheridan, Section II: Sheridan County Electric Cooperative, Inc., Medicine Lake, Mont., to Sydney T. Olson, Jr., 915 8th St., West, Billings, Mont., \$315,068.21 for the construction of 284.6 miles of line to serve 240 members, plus the conversion of 42.1 miles of line. Engineer (19).

Montana 26D Valley, Section I: Northern Electric Cooperative, Inc., Opheim, Mont., to Hi-Line Construction Co., Wolf Point, Mont., \$92,800.05 for the construction (labor only) of 254.59 miles of line to serve 207 members, plus the conversion of 32.2 miles of line. Engineer (19).

Nebraska 44S, U&V Eastern, Section II: Eastern Nebraska Public Power District, Syracuse, Nebr., to W. L. Coston, Bessemer, Ala., \$397,310.21 for the construction of 332 miles of line to serve 600 members, plus the conversion of 7 miles of line. Engineer (15).

Nebraska 59L Butler: Butler County Rural Public Power District, David City, Nebr., to Crawford Electric Co., North Platte, Nebr., \$352,108.65 for the construction of 340.7 miles of line to serve 550 members, plus the conversion of 27 miles of line. Engineer (20).

Nebraska 80A Boyd, Section II: Niobrara Valley Electric Membership Corp., O'Neill, Nebr., to Douglas Contractors, Ltd., 234 Keeline Bldg., Omaha 2, Nebr., \$54,978.44 for the construction (labor only) of 214.2 miles of line to serve 250 members. Engineer (15).

Nebraska 83C2 & D1 Custer: Custer Public Power District, Broken Bow, Nebr., two contracts, both to Crawford Electric Co., North Platte, Nebr., Section C2: \$21,482.08 for the construction (labor only) of 27.1 miles of 34.5 kv transmission line. Section D1: \$140,525.48 for the construction of 130.1 miles of line to serve 154 members. Engineer for both (20).

Nebraska 85C Holt: North Central Nebraska Rural Public Power District, Creighton, Nebr., to W. L. Coston & Sons, Bessemer, Ala., \$295,549.60 for the construction of 299.4 miles of line to serve 418 members, plus the conversion of 15.9 miles of line. Engineer (20).

Nebraska 88D Perkins: Midwest Electric Membership Corp., Grant, Nebr., to A. B. Reither Construction Co., Inc., 620 Denham Bldg., Denver 2, Colo., \$244,048.20 for the construction of 268.1 miles of line to serve 312 members, plus the conversion of 7.8 miles of line. Engineer (10).

Nebraska 95B2 & C2 Cheyenne: Wheat Belt Electric Membership Association, Inc., Sidney, Nebr., to Goins and Hon, Horton, Kans., \$518,500.08 for the construction of 521.62 miles of line to serve 593 members. Engineer (10).

New Mexico 26A Union, Section II: Southwestern Electric Cooperative, Inc., Clayton, N. Mex., to Electric Supply & Service Co., 608 N. Turner St., Hobbs, N. Mex., \$44,007.30 for the construction (labor only) of 224 miles of line to serve 296 members. Engineer (21).

North Carolina 50D Wayne: Tri-County Electric Membership Corp., Goldsboro, N. C. to Durham Electric Construction Co., 113-19 Orange St., Durham, N. C. \$231,706.20 for the construction of 199.4 miles of line to serve 583 members, plus the conversion of 13.3 miles of line. Engineer (22).

North Dakota 8R2 Benson: Baker Electric Cooperative, Inc., Cando, N. Dak., to Center Construction Co., Center, N. Dak., \$333,733.56 for the construction of 351.8 miles of line to serve 417 members. Engineer (23).

North Dakota 11W2 Cass: Cass County Electric Cooperative, Inc., Kindred, N. Dak., to Zontelli Construction Co., Ironton, Minn., \$79,488.55 for the construction (labor only) of 314.33 miles of line to serve 297 members. Engineer (23).

North Dakota 13H2 Foster: Tri-County Electric Cooperative, Inc., Carrington, N. Dak., to Sorkness Construction Co., Box 1482, Fargo, N. Dak., \$236,618.10 for the construction of 236 miles of line to serve 209 members. Engineer (23).

North Dakota 21G1 Sargent: R. S. R. Electric Cooperative, Inc., Milnor, N. Dak., to Bloedow & Klabunde, Clements, Minn., \$49,450.45 for the construction (labor only) of 204.55 miles of line to serve 212 members. Engineer (23).

North Dakota 26D1 La Moure: James Valley Electric Cooperative, Inc., Edgeley, N. Dak., to Power Engineering Co. & Boswell-Cusack Contractors, 544 Benson Bldg., Sioux City, Ia., \$473,243.51 for the construction of 473.8 miles of line to serve 478 members. Engineer (24).

North Dakota 27D2 Emmons: KEM Electric Cooperative, Inc., Linton, N. Dak., to Zontelli Construction Co., Ironton, Minn., \$310,692.66 for the construction of 326.8 miles of line to serve 335 members. Engineer (23).

North Dakota 29C3 McKenzie: McKenzie Electric Cooperative, Inc., Watford City, N. Dak., to I. O. Teigen Construction Co., 1954 University Ave., St. Paul, Minn., \$97,421.40 for the construction (labor only) of 362.4 miles of line to serve 295 members. Engineer (25).

North Dakota 31C1 Burke: Burke-Divide Electric Cooperative, Columbus, N. Dak., to Swenson Construction Co., Columbus, N. Dak., \$318,492.80 for the construction of 321.98 miles of line to serve 319 members. Engineer (23).

North Dakota 32C1 & C2 Oliver: Oliver-Mercer Electric Cooperative, Hazen, N. Dak., two contracts: C1: to E. A. Reither, 2123 Aldrich Ave., S., Minneapolis 5, Minn., \$317,511.79 for the construction of 313.2 miles of line to serve 261 members. C2: to O'Leary and Statko, Hancock, Minn., \$326,728.62 for the construction of 313.2 miles of line to serve 264 members. Engineer for both (25).

North Dakota 37D McLean: McLean Electric Cooperative, Inc., Garrison, N. Dak., to Martin Engineering Co., 1550 1st Ave. N., Fargo, N. Dak., \$407,818.48 for the construction of 398 miles of line to serve 388 members. Engineer (23).

Oklahoma 18S Beckham: Northfork Electric Cooperative, Sayre, Okla., to B-Line Construction Co., 520 First National Bank Bldg., Oklahoma City, Okla., \$179,659.54 for the construction of 207.05 miles of line to serve 280 members. Engineer (26).

Oklahoma 20L&M Garvin: Rural Electric Cooperative, Inc., Lindsay, Okla., to R. E. Mattison & Co., Box 458, Britton, Okla., \$255,617.23 for the construction of 212.9 miles of line to serve 477 members. Engineer (27).

Oklahoma 23P Okmulgee: East Central Oklahoma Electric Cooperative, Okmulgee, Okla., to Lemco Construction Co., Muskogee, Okla., \$317,411.70 for the construction of 261.15 miles of line to serve 541 members. Engineer (28).

Oklahoma 29L&N Hughes: Canadian Valley Electric Cooperative, Seminole, Okla., to Mid-State Construction Co., Karnes City, Tex., \$101,216.27 for the construction (labor only) of 236.8 miles of line to serve 412 members. Engineer (28).

Oregon 22G Clackamas: Northeast Clackamas County Electric Cooperative, Inc., Sandy, Ore., to Ripp Electric Co., 3045 Portland Road, Salem, Ore., \$61,862.62 for the construction (labor only) of 21.18 miles of 34.5 kv transmission line. Engineer (29).

South Carolina 29H Sumter: Black River Electric Cooperative, Inc., Sumter, S. C., to Leo T. Barber, 110 First St., S. E., Moultrie, Ga., \$186,358.25 for the construction of 140.51 miles of line to serve 387 members, plus the conversion of 75.54 miles of line. Engineer (6).

South Dakota 13E2&F Custer: Black Hills Electric Cooperative, Custer, S. Dak., to Mork Hardware & Electric Co., Clarkfield, Minn., \$68,585.10 for the construction (labor only) of 242.2 miles of line to serve 294 members. Engineer (30).

South Dakota 16K Grant: Whetstone Valley Electric Association, Inc., Milbank, S. Dak., to Davis-Hydaker Co., Spencerville, Ohio, \$38,676.75 for the construction (labor only) of 132.5 miles of line to serve 179 members. Engineer (25).

South Dakota 25C2 Aurora: Tri-County Electric Association, Plankinton, S. Dak., to I. O. Teigen Construction Co., 1954 University Ave., St. Paul, Minn., \$332,884.48 for the construction of 379.1 miles of line to serve 360 members. Engineer (20).

South Dakota 35A1 Bennett: LaCreek Electric Association, Martin, S. Dak., to Philard, Inc., Sioux Falls, S. Dak., \$307,423.46 for the construction of 260.2 miles of line to serve 240 members. Engineer (24).

Tennessee 57A Johnson City: Johnson City Power Board, Johnson City, Tenn., to Irby Construction Co., 817 S. State St., Jackson, Miss., \$405,384.10 for the construction of 260 miles of line to serve 1585 members. Engineer (2).

Texas 60N&P Lynn, Section II: Lyntegar Electric Cooperative, Tahoka, Tex., to Electric Supply & Service, 608 N. Turner, Hobbs, N. Mex., \$12,804.60 for (labor only) covering system improvements consisting of conversion and tie line. Engineer (31).

Texas 63M Navarro, Section I: Navarro County Electric Cooperative, Inc., Corsicana, Tex., to Ericson Construction Co., Box 364, Spur, Tex., \$46,542.15 for the construction (labor only) of 140.9 miles of line to serve 318 members, plus the conversion of 17.6 miles of line. Engineer (32).

Texas 83M2,N&P Fisher: Midwest Electric Cooperative, Inc., Roby, Tex., to Basanda Construction Co., 2925 N. W. 39th Terrace, Oklahoma City 7, Okla., \$190,116.70 for the construction of 200 miles of line to serve 153 members. Engineer (33).

Texas 135F Ochiltree: North Plains Electric Cooperative, Inc., Perryton, Tex., to Thompson, Haight & Keister, 2006 N. Portland, Oklahoma City, Okla., \$388,240.45 for the construction of 430 miles of line to serve 219 members. Engineer (33).

Virginia 34S&T Lee: Powell Valley Electric Cooperative, Jonesville, Va., to Killoren Electric Co., Appleton, Wisc., \$260,300.42 for the construction of 176.6 miles of line to serve 622 members plus the conversion of 21.5 miles of line. Engineer (34).

Virginia 37H&K Nansemond: Community Electric Cooperative, Suffolk, Va., to Dewey G. Weddle & Co., Norfolk, Va., \$26,270.65 for the construction (labor only) of 66.3 miles of line to serve 145 members, plus the conversion of 18 miles of line. Engineer (35).

Wyoming 22A Niobrara: Niobrara Electric Association, Lusk, Wyo., to Continental Co., 54 Beverly Place, Dayton 9, Ohio, \$86,585.40 for the construction of 270 miles of line to serve 362 members. Engineer (10).

PART II - APPROVED PRELIMINARY PLANS AND SPECIFICATIONS

Georgia 83L Jackson: (Final Plans & Specs) Jackson Electric Membership Corp., Jefferson, Ga., 136.39 miles, 540 members. Engineer (36).

Mississippi 36U Marion: (Final Plans & Specs) Pearl River Valley Electric Power Association, Columbia, Miss., 122 miles, 363 members. Engineer (13).

South Carolina 34G Newberry: (Final Plans & Specs) Newberry Electric Cooperative, Inc., Newberry, S. C., 20.57 miles, system improvements. Engineer (6).

NAMES AND ADDRESSES OF SYSTEM ENGINEERS (Expl. Item 1, page 1.)

1. Lanier Engineering Co., 102 $\frac{1}{2}$ Elm St., Troy, Ala.
2. McWhorter & Franklin Engineers, 2535 Franklin Road, Nashville, Tenn.
3. Tynes & Loftin, 512 Heard Bldg., Phoenix, Ariz.
4. H. B. Gieb & Associates, 1005 Woodruff Bldg., Springfield, Mo.
5. Frank Horton & Co., Lamar, Mo.
6. Southern Engineering Co., 699 Spring St., N. W. Atlanta, Ga.
7. Drazen & Associates, 8135 Forsyth Blvd., St. Louis 24, Mo.
8. Philip L. Burns, 630 Davenport Bank Bldg., Davenport, Ia.
9. Richardson Electrical Engineering Co., P. O. Box 263, Solomon, Kans.
10. Flora Engineering Co., 1717 East Colfax, Denver, Colo.
11. George C. Hengy, 1007 $\frac{1}{2}$ Texas Ave., Shreveport, La.
12. Henry A. Olin, Duluth, Minn.
13. Bowman & Bowman, Greenwood, Miss.
14. Allen & Hoshall, 65 McCall Place, Memphis, Tenn.
15. Henningson Engineering Co., 626 Standard Oil Bldg., Omaha 2, Nebr.
16. Stanley Engineering Co., Hershey Bldg., Muscatine, Ia.
17. Birenbaum & Smith, 5968 Cote Brillante, St. Louis 12, Mo.
18. The F. K. Steel Co., 5 N. Park Dr., Great Falls, Mont.
19. Montana State Water Conservation Board, Helena, Mont.
20. Raymond H. Reed & Co., 2305 $\frac{1}{2}$ 13th St., Columbus, Nebr.
21. Hollis W. Harris, 711 Kentucky Ave., Amarillo, Tex.
22. L. E. Wooten & Co., Suite 712 Capital Club Bldg., Raleigh, N. C.
23. Ulteig Engineering Corp., 1114 $\frac{1}{2}$ Front St., Fargo, N. Dak.
24. Scott Engineering Co., Watertown, S. Dak.
25. Banister Engineering Co., 1586 University Ave., St. Paul, Minn.
26. C. H. Guernsey & Co., 1414 N. Robinson, Oklahoma City, Okla.
27. Archer & Handley, Box 103, Ada, Okla.
28. E. R. Taylor & Associates, 4107A E. 11th St., Tulsa 4, Okla.
29. Civil Engineering Service, 2626 S. E. Ankeny St., Portland 15, Ore.
30. Donald O. Flahart, 607 St. Joe St., Rapid City, S. Dak.
31. Price & Hawk, 1509 13th St., Lubbock, Tex.
32. J. H. Flood & Co., 2906 Franklin St., Waco, Tex.
33. H. N. Roberts & Associates, 1310 Ave. Q, Lubbock, Tex.
34. Pat M. Sullivan, 905 Stahlman Bldg., Nashville 3, Tenn.
35. B. O. Vannort Engineers, Inc., 513 S. Tryon St., Charlotte 2, N. C.
36. Patterson & Dewar, Decatur, Ga.

